

FIG. 1A is a perspective view of a vehicle 1 equipped with a sensor 2. The sensor 2 is mounted on the roof of the vehicle 1. The sensor 2 is configured to detect a relative angle  $\theta_1$  between a line of sight  $L_1$  and a horizontal line  $L_c$ . The sensor 2 is also configured to output a relative angle  $\theta_1$  to a relative angle sensor 4. The relative angle sensor 4 is configured to output a relative angle  $\theta_1$  to a relative angle output 5. The relative angle output 5 is configured to output a relative angle  $\theta_1$  to a relative angle sensor 4.

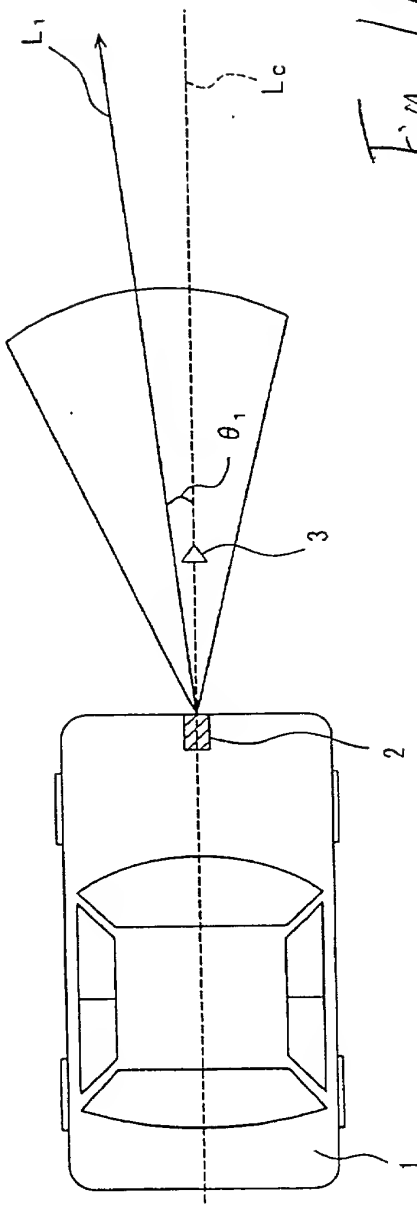


Fig. 1A

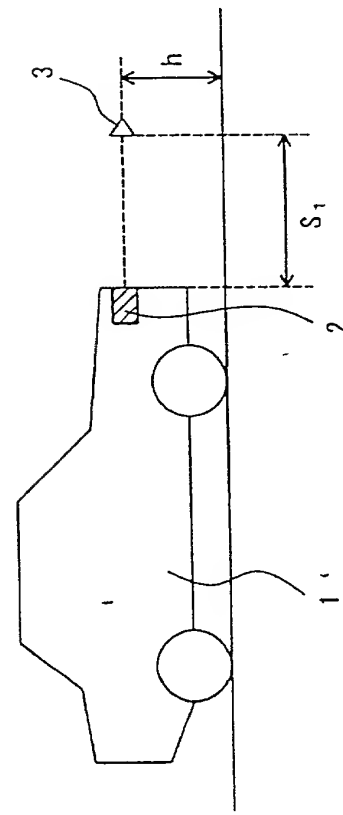
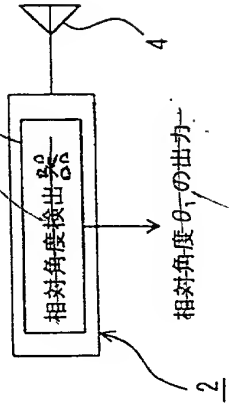


Fig. 1B

relative angle sensor



output of  $\theta_1$   
relative angle  $\theta_1$

Fig. 2A

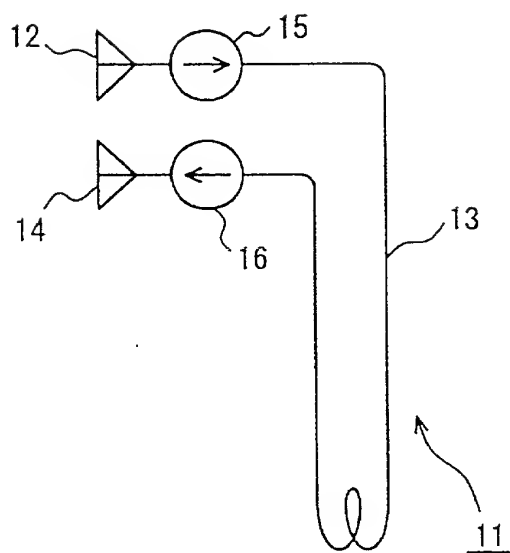


Fig. 2B

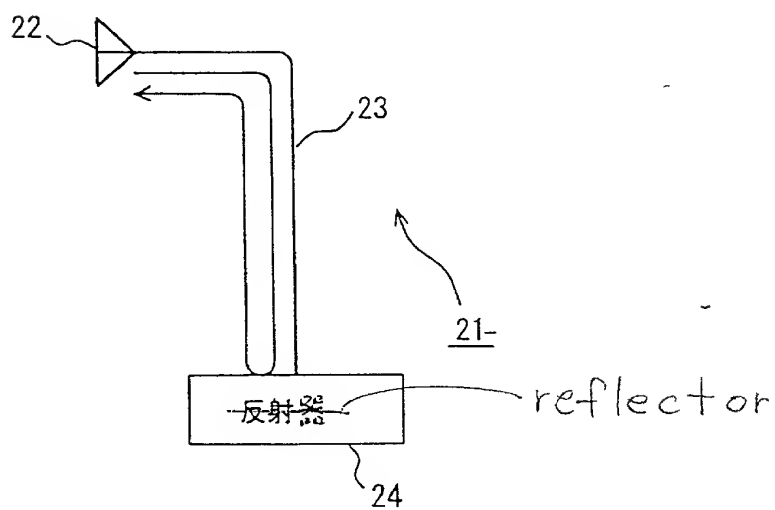


Fig. 3A

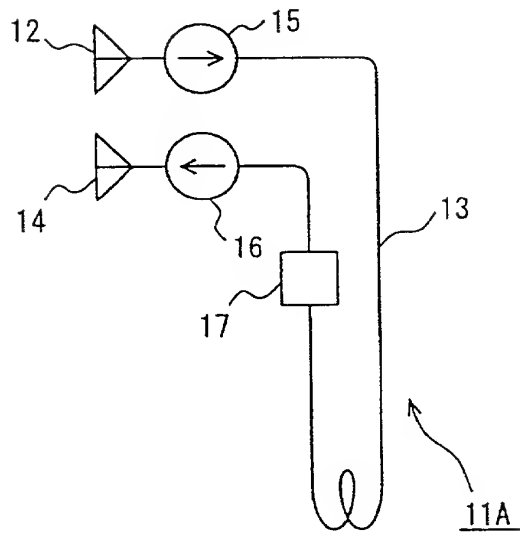


Fig. 3B

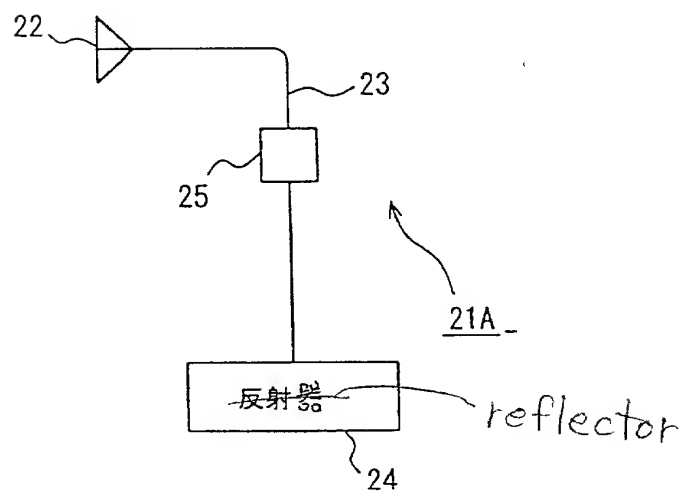


Fig. 4A

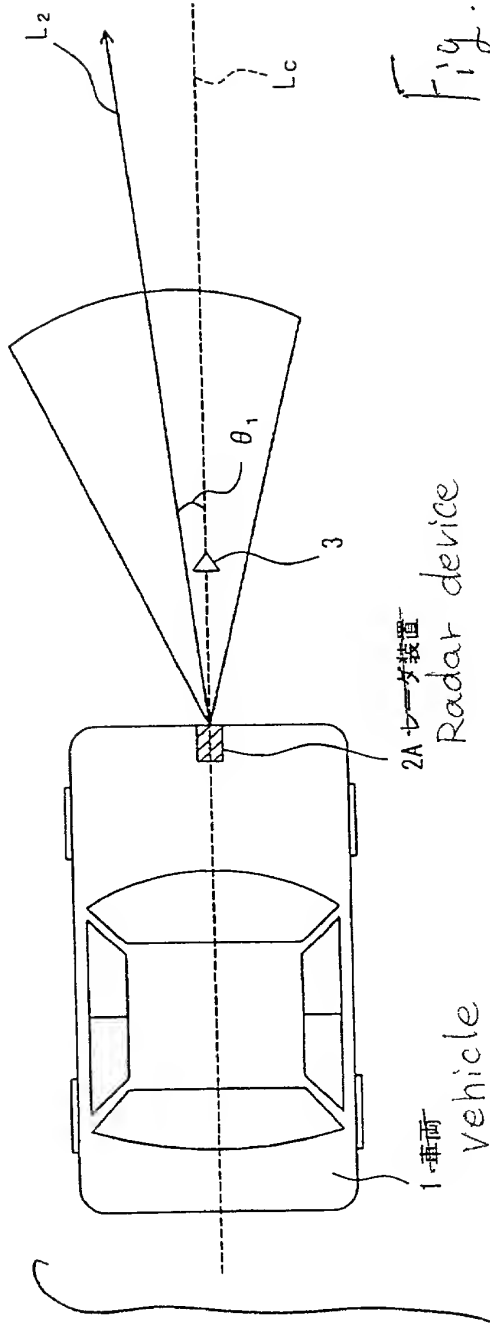


Fig. 4B

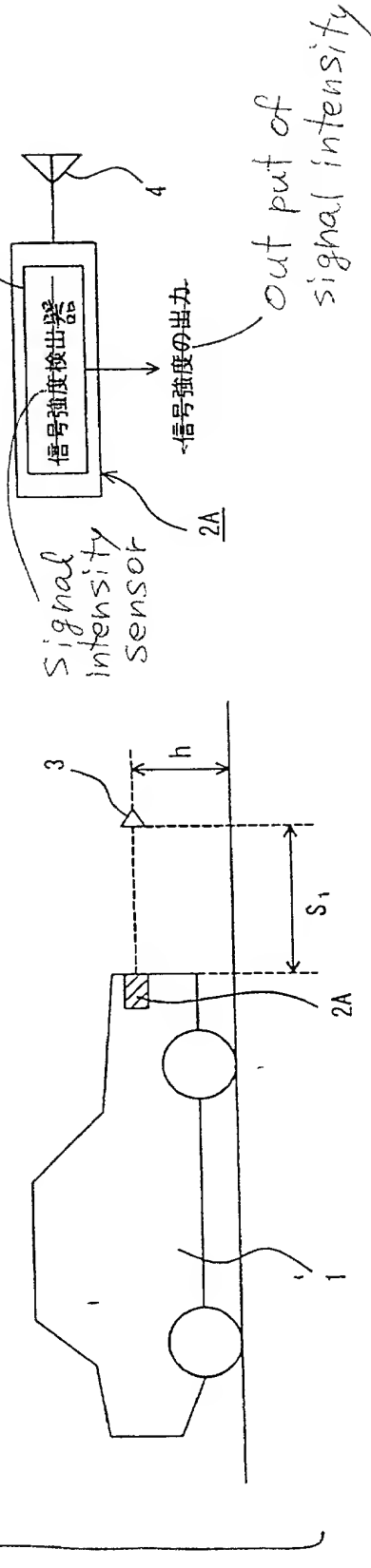
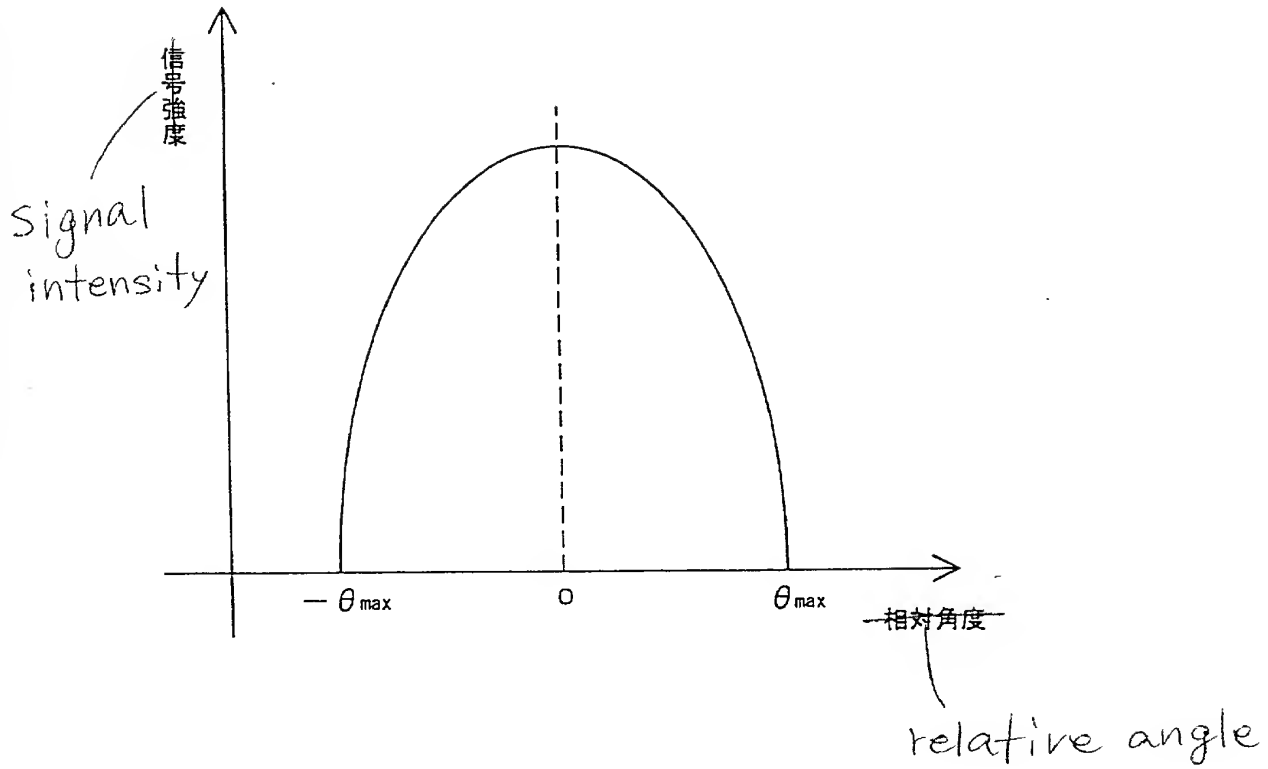


Fig. 5



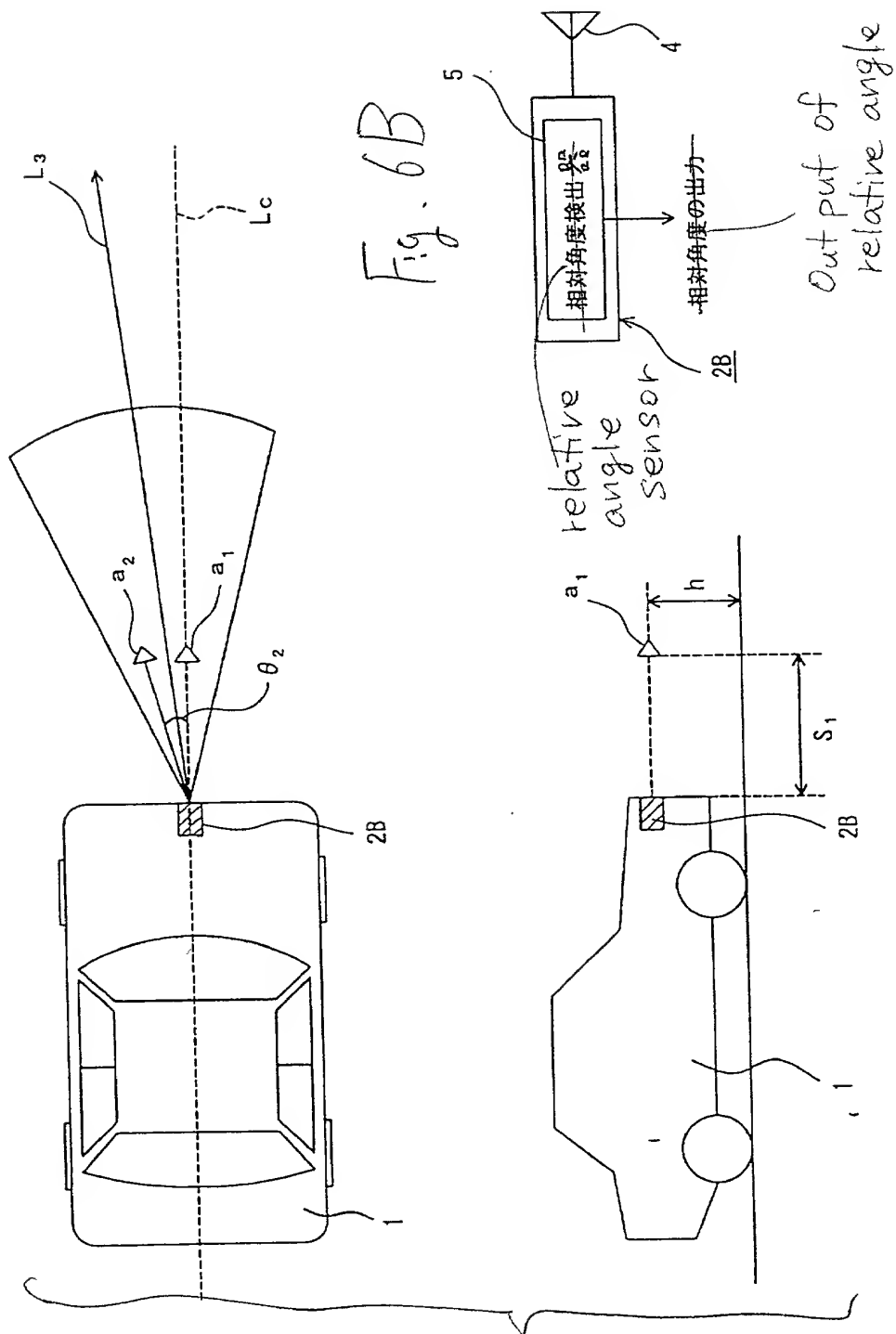


Fig. 6A

Fig. 6B

FIG. 7

Fig. 7

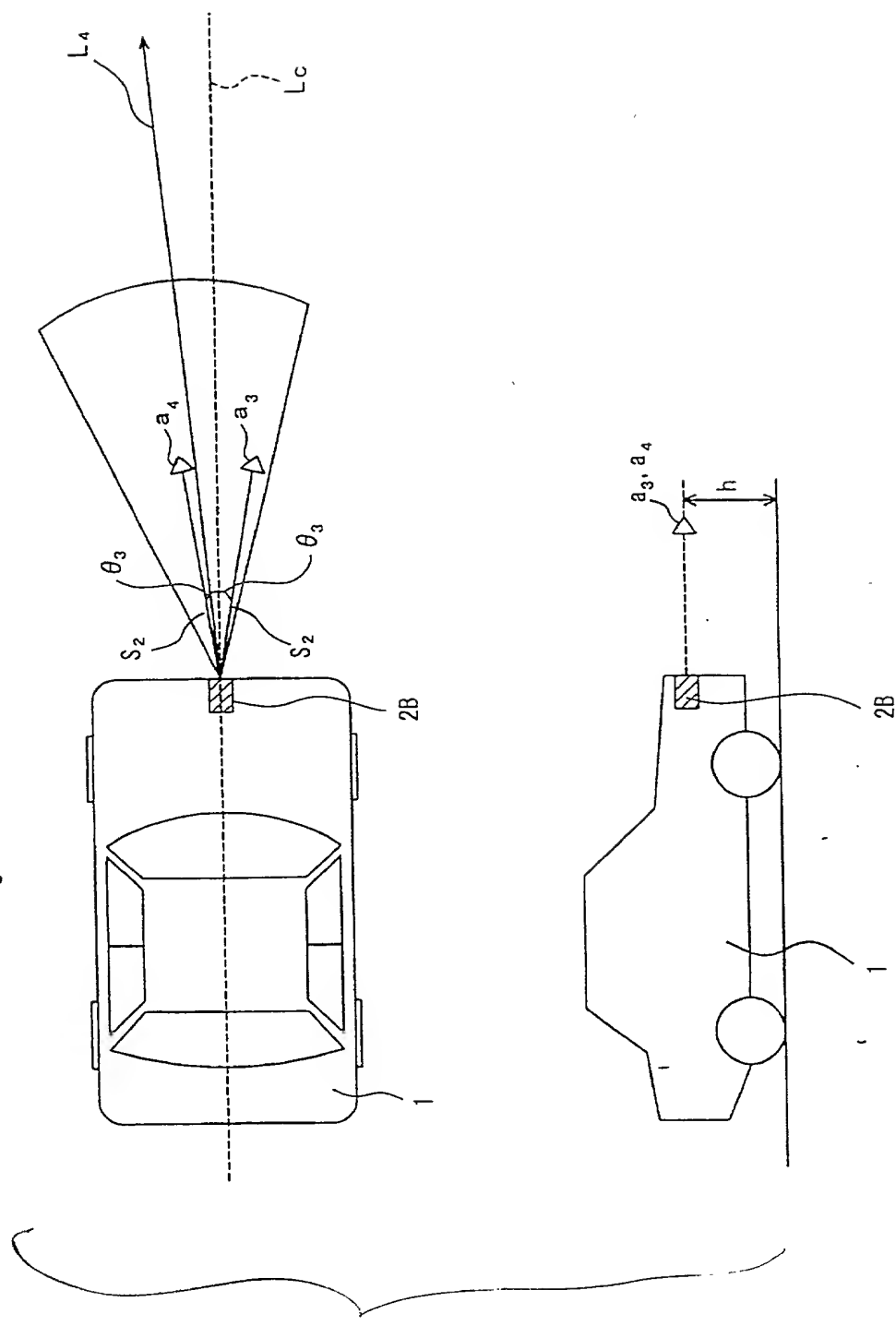


Fig. 8A

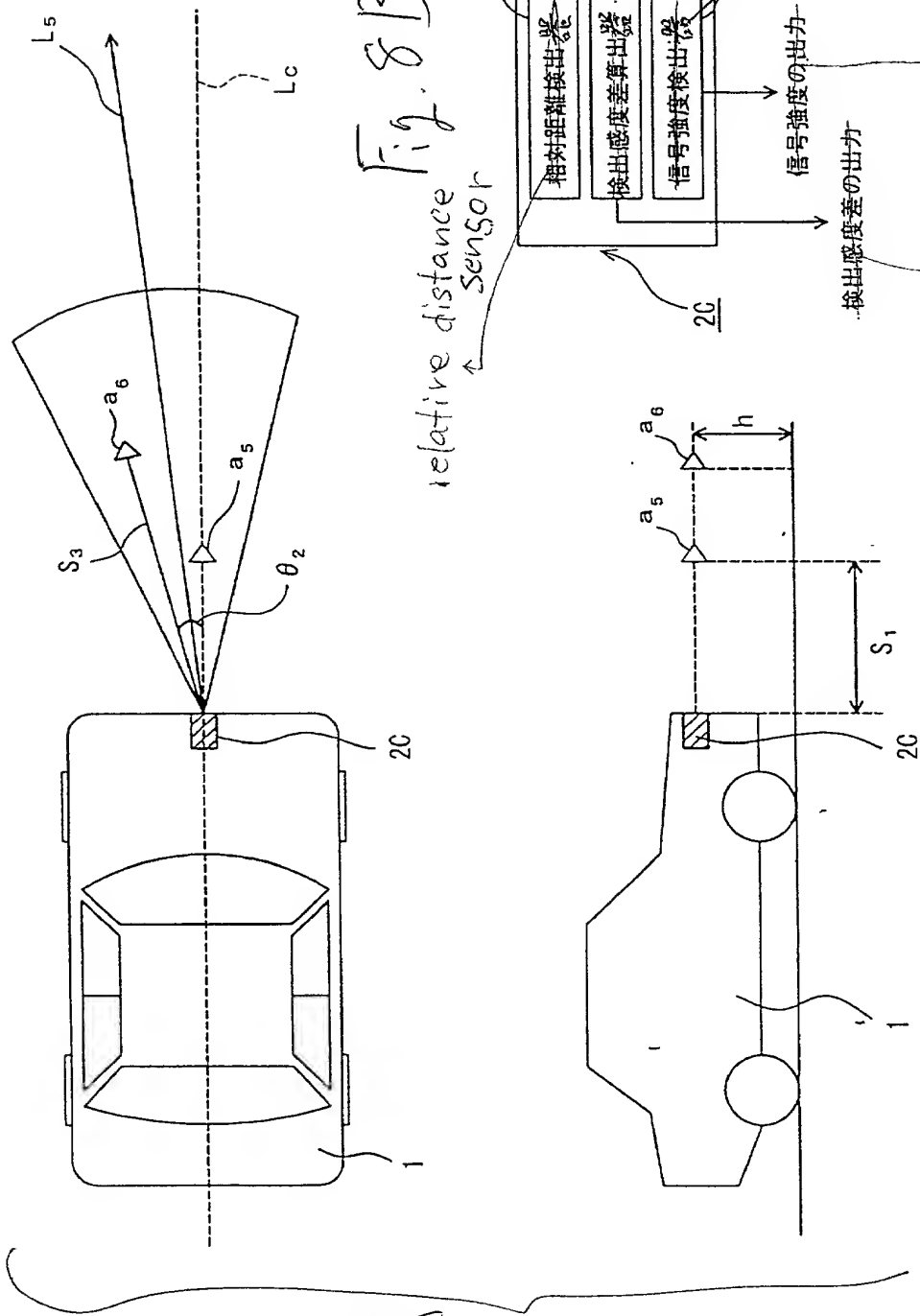


Fig. 8B

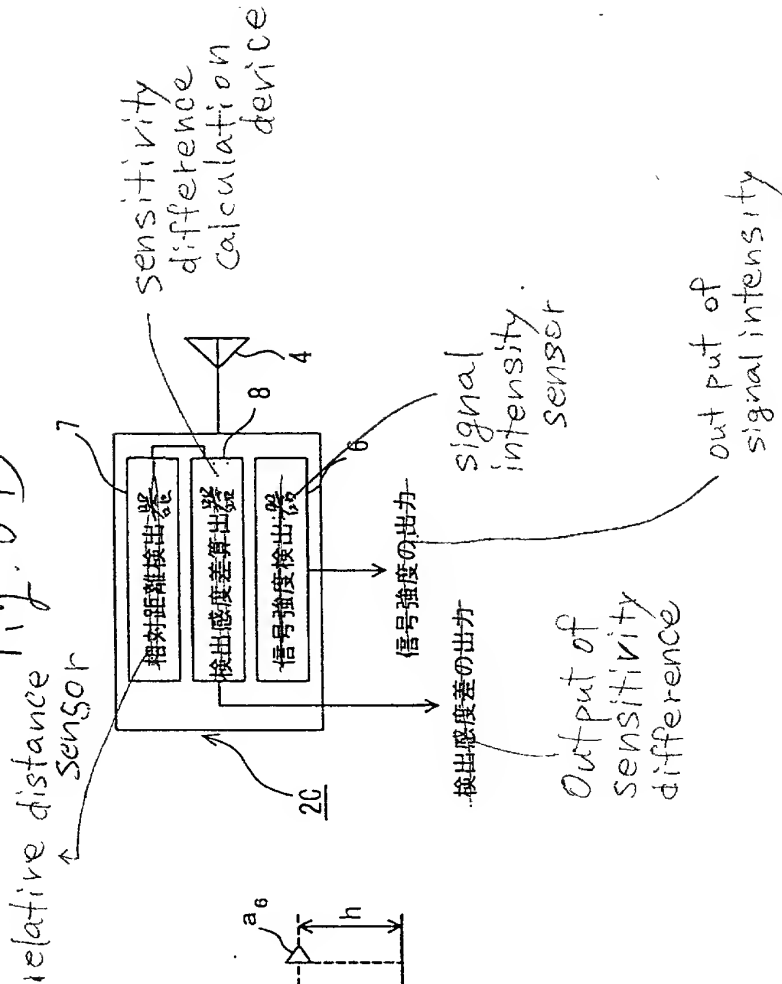
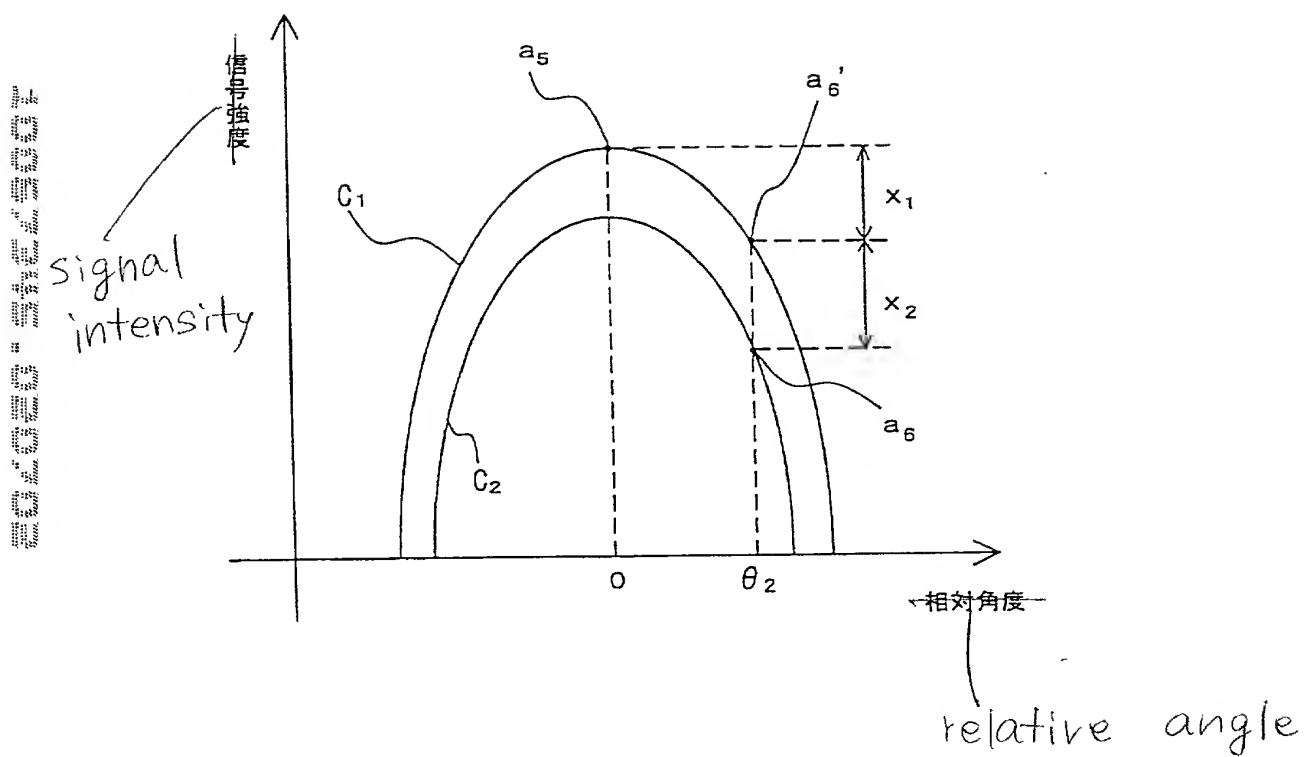




Fig. 9



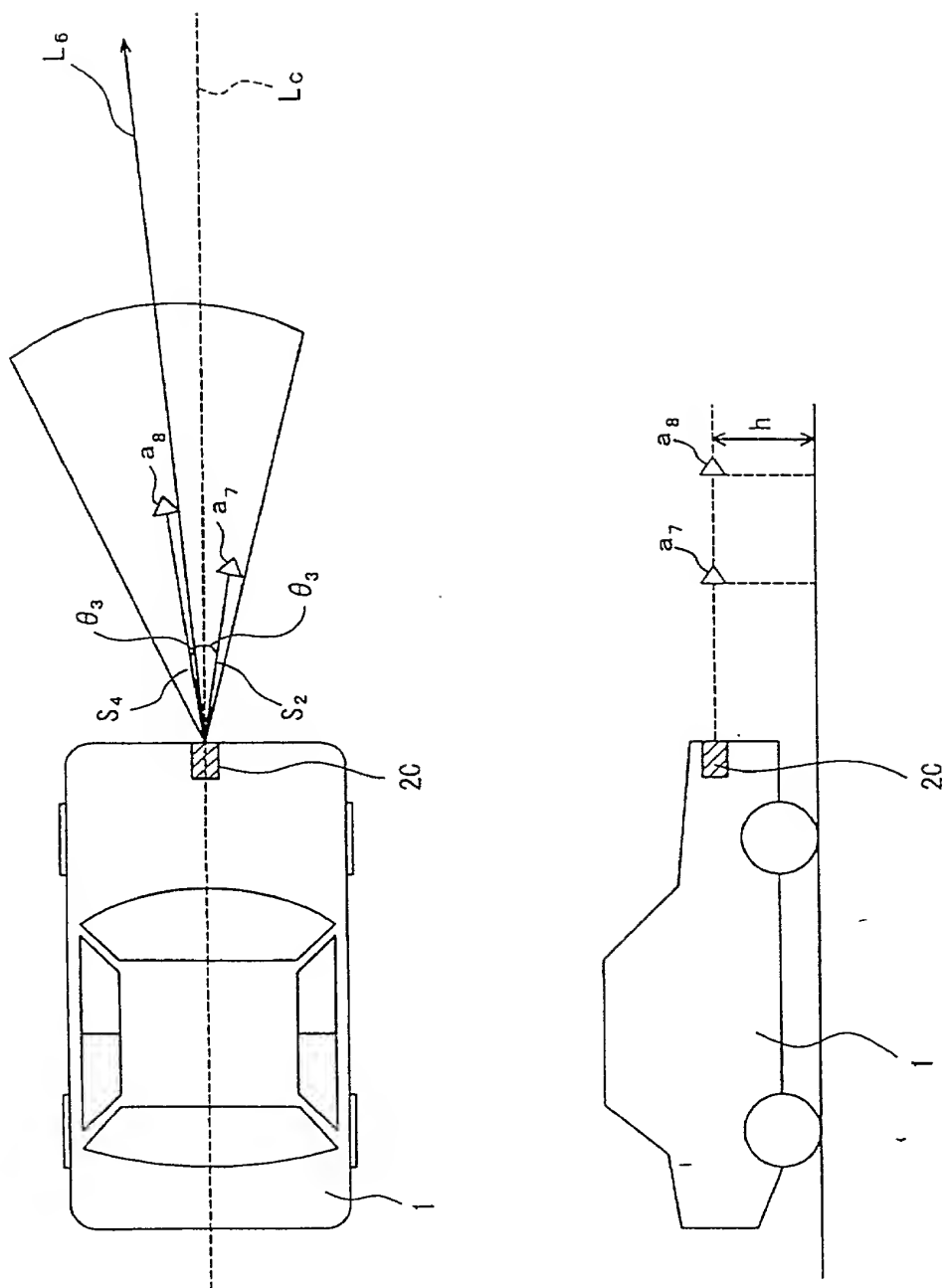


Fig. 11

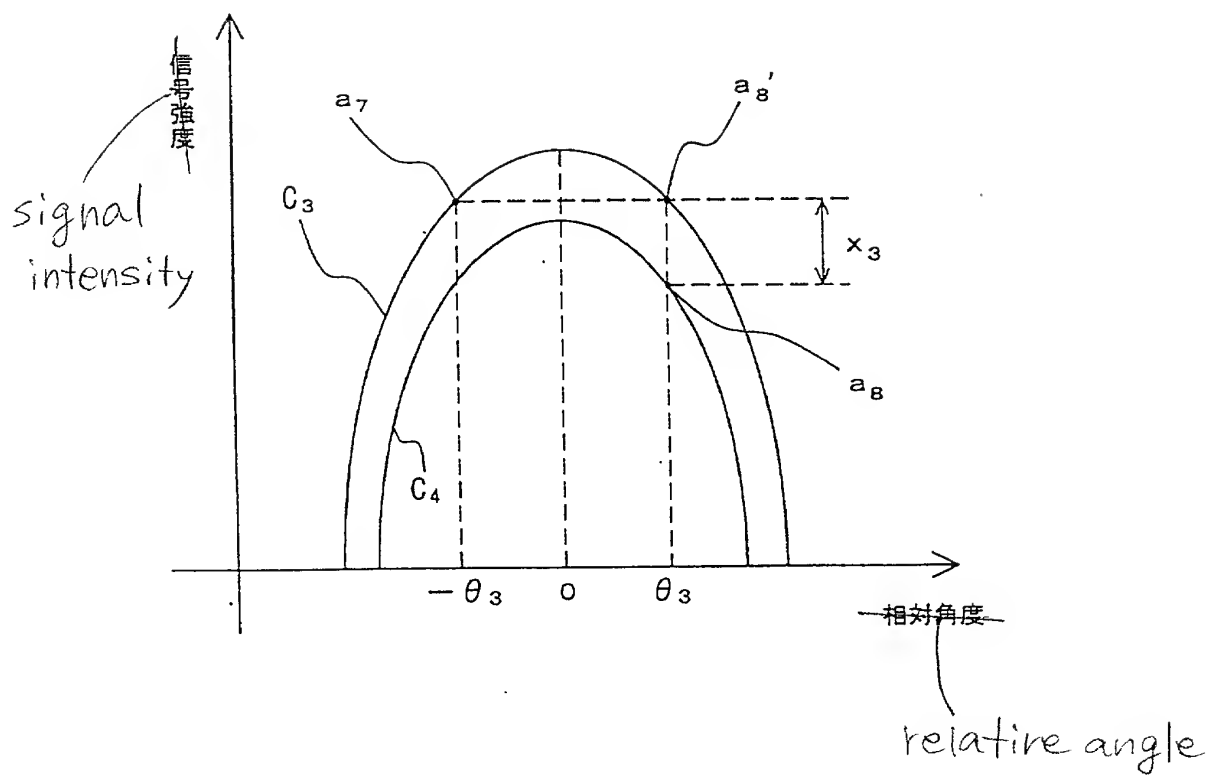


Fig. 12

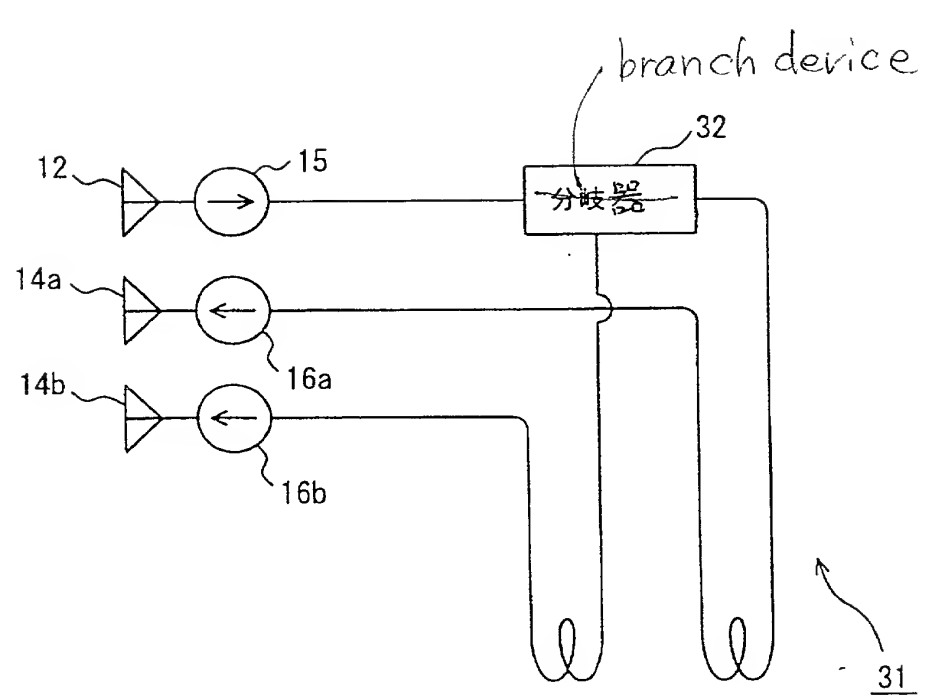


Fig. 13A

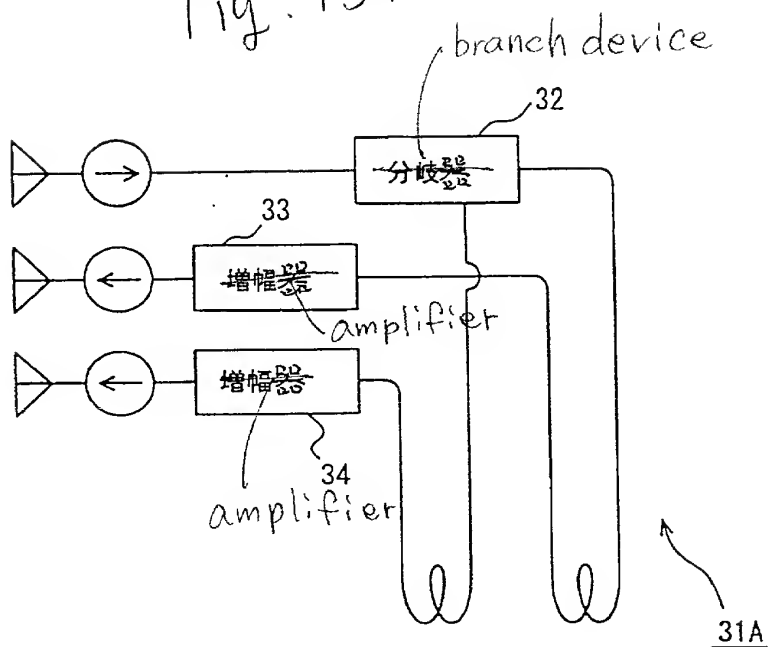


Fig. 13B

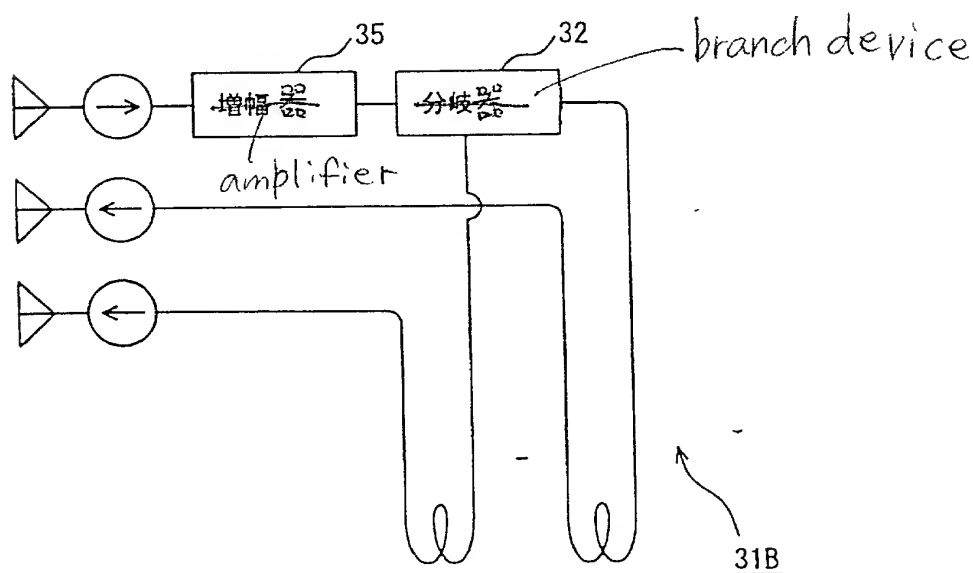
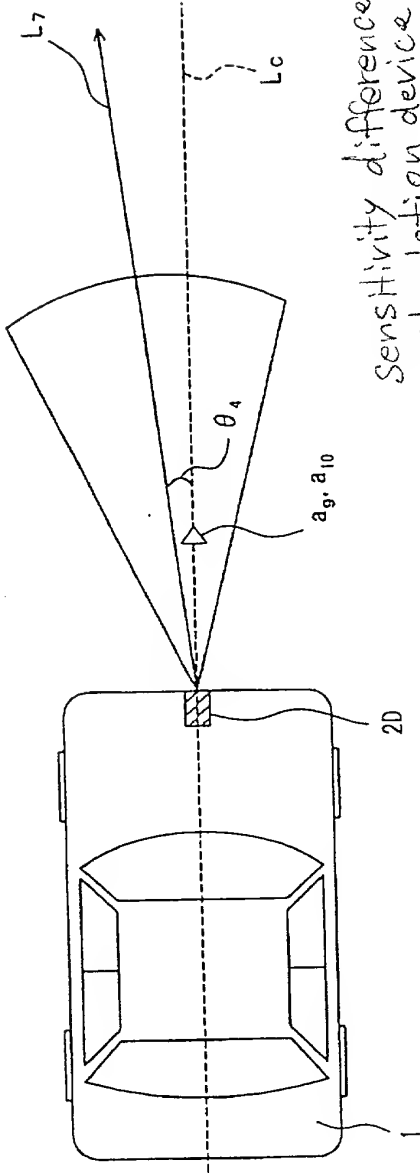


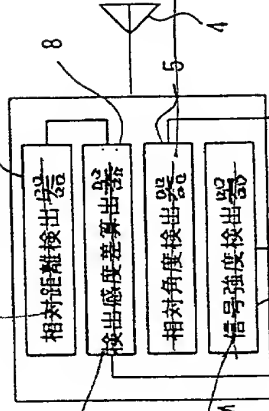
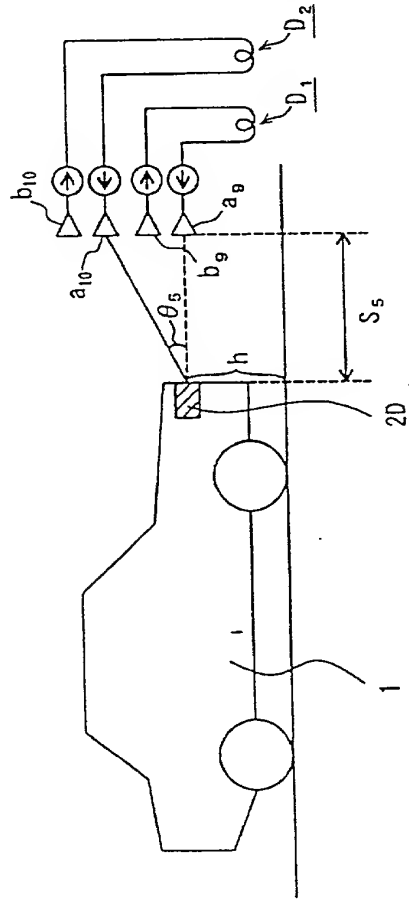
Fig. 14A

Fig. 14A



Sensitivity difference calculation device Fig. 14B

relative distance sensor



Signal Intensity Sensor

relative angle sensor

相对角度 $\theta_4$ の出力

out put of relative angle $\theta_4$

信号強度の出力

検出感度差の出力

out put of sensitivity difference

out put of signal intensity

Fig. 15

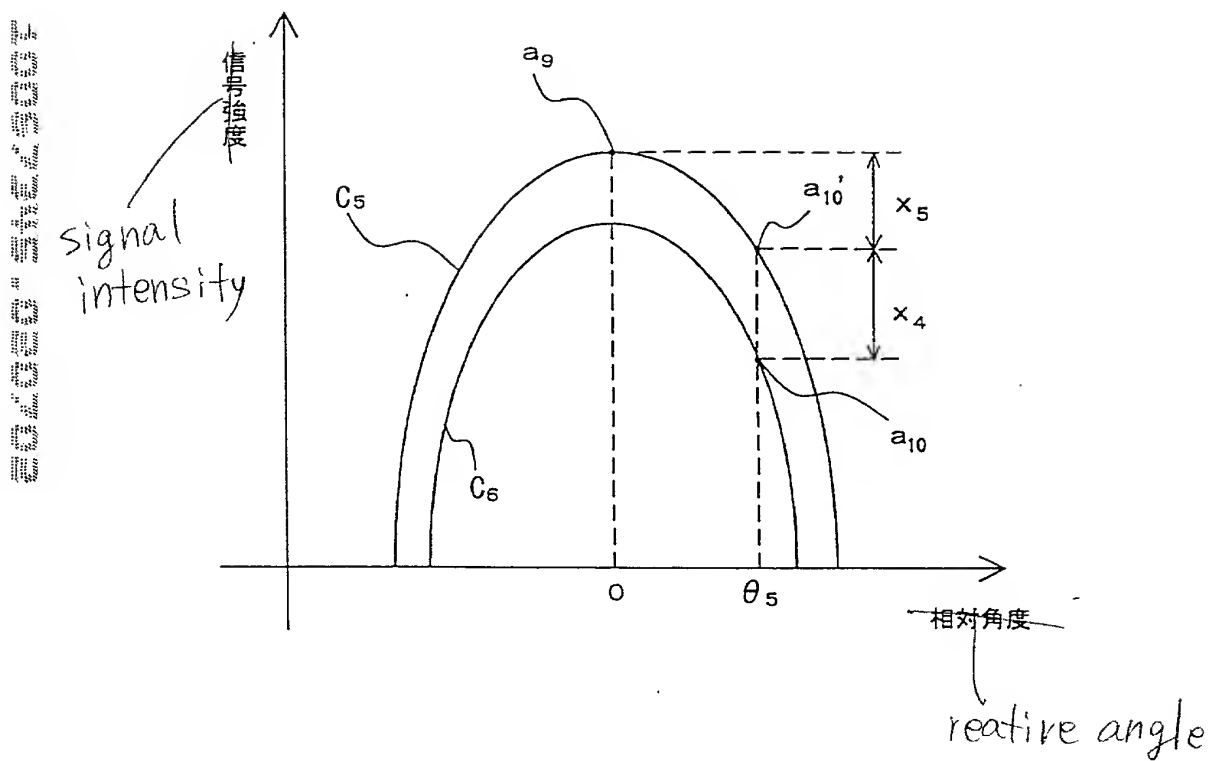


Fig. 16A

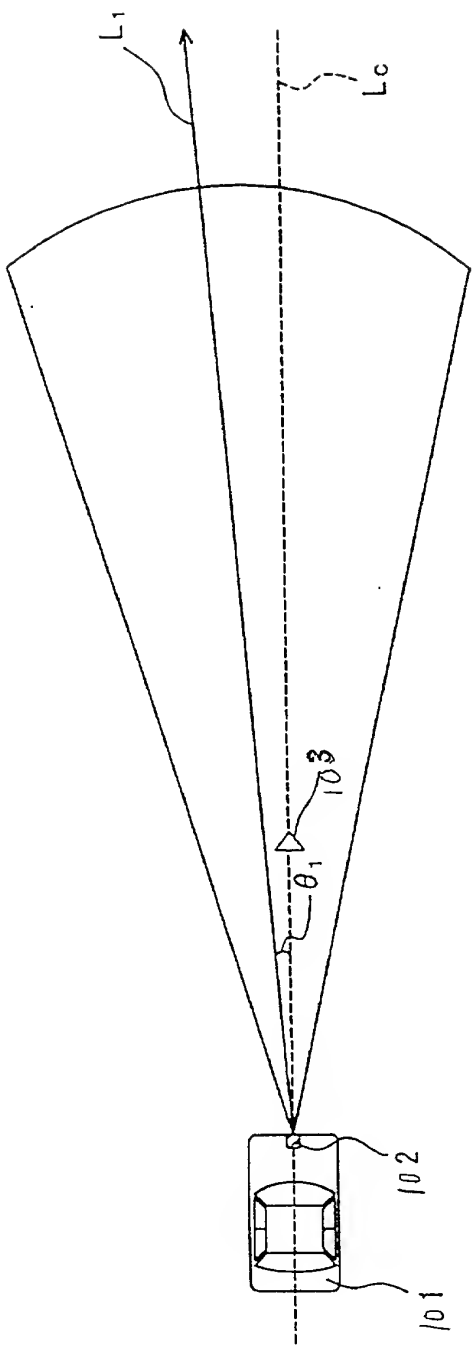
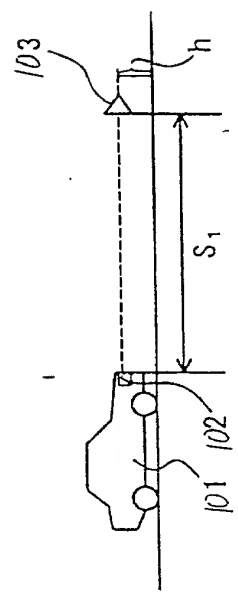
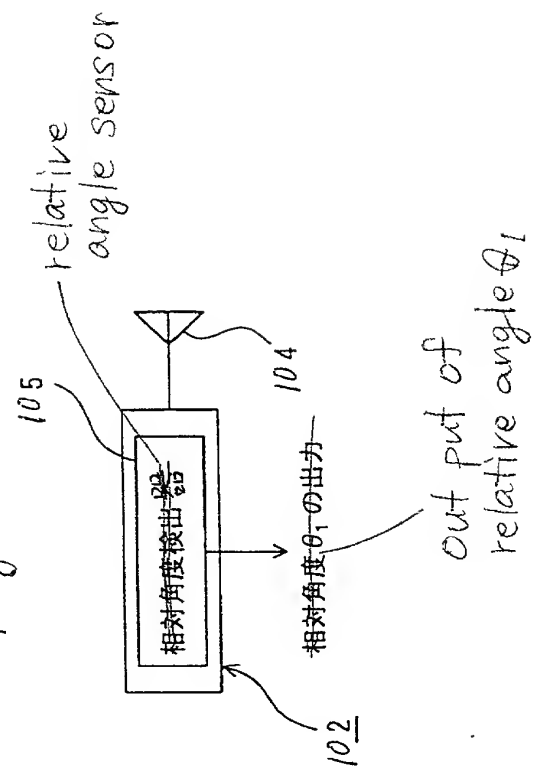


Fig. 16B





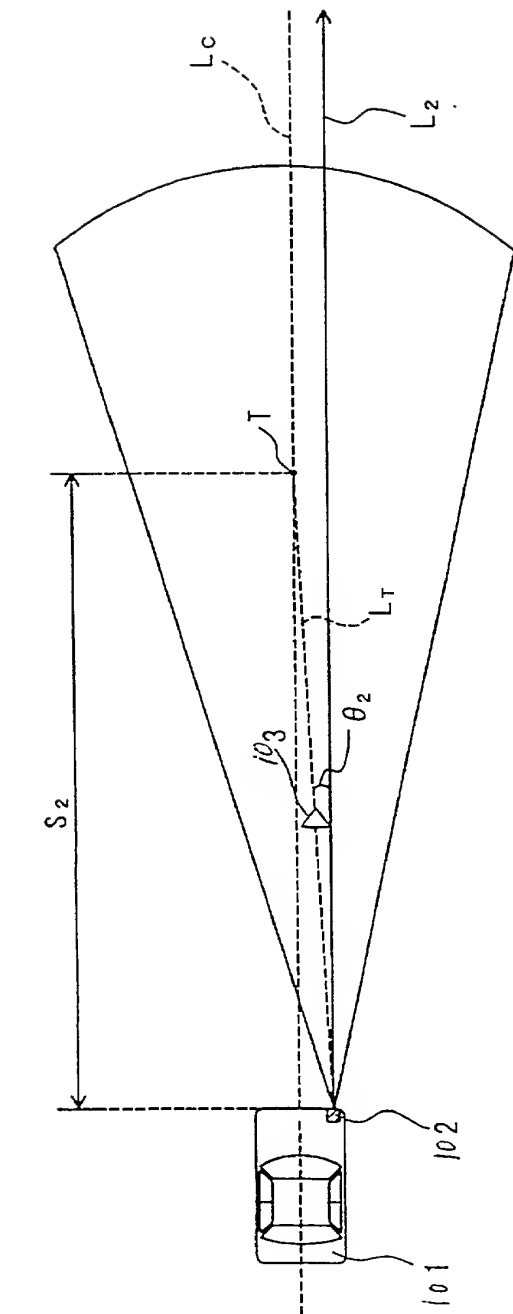
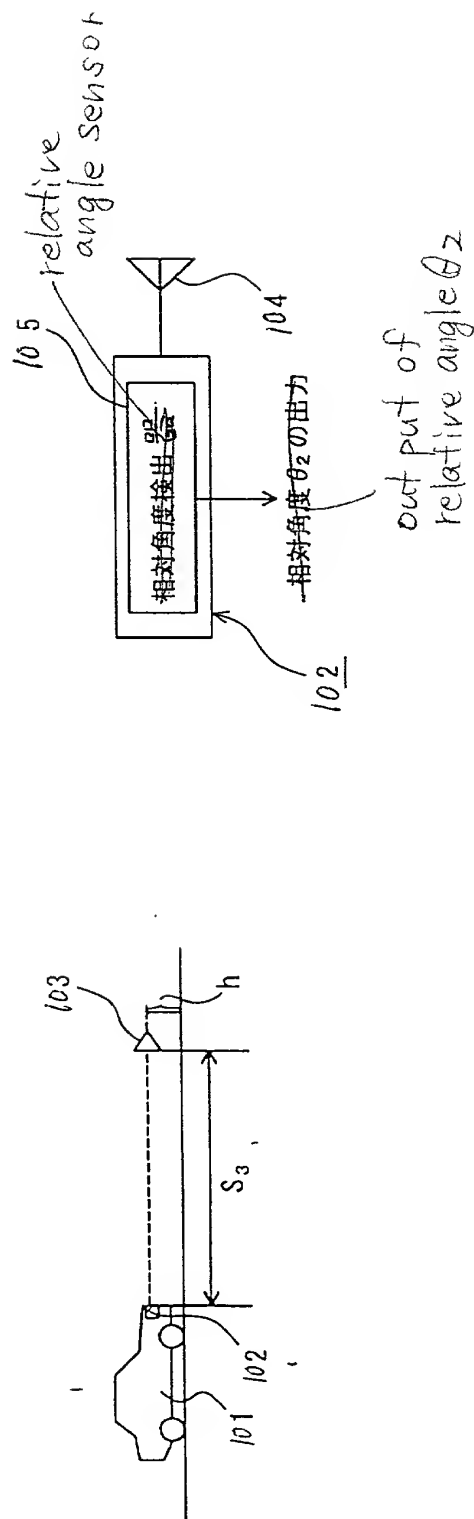


Fig. 17B



out put of  
relative angle  $\theta_2$

Fig. 18A

Fig. 18A

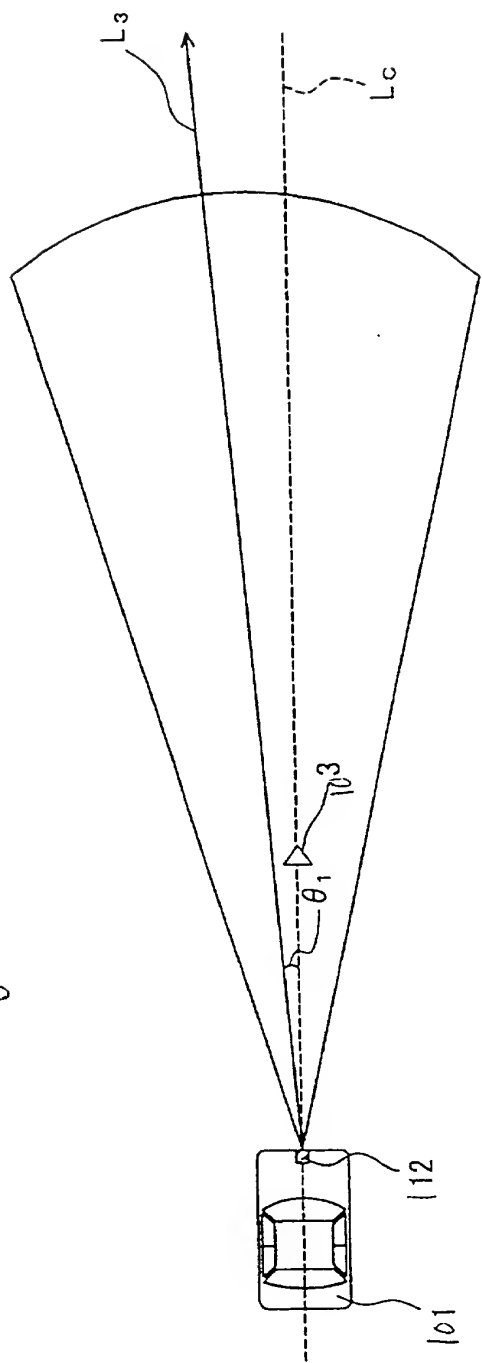
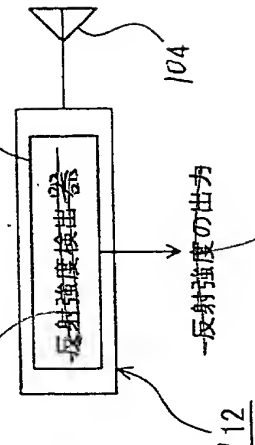
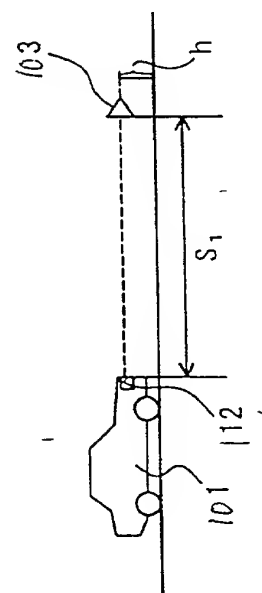


Fig. 18B

reflection  
intensity sensor



out put of  
reflection intensity

Fig. 19

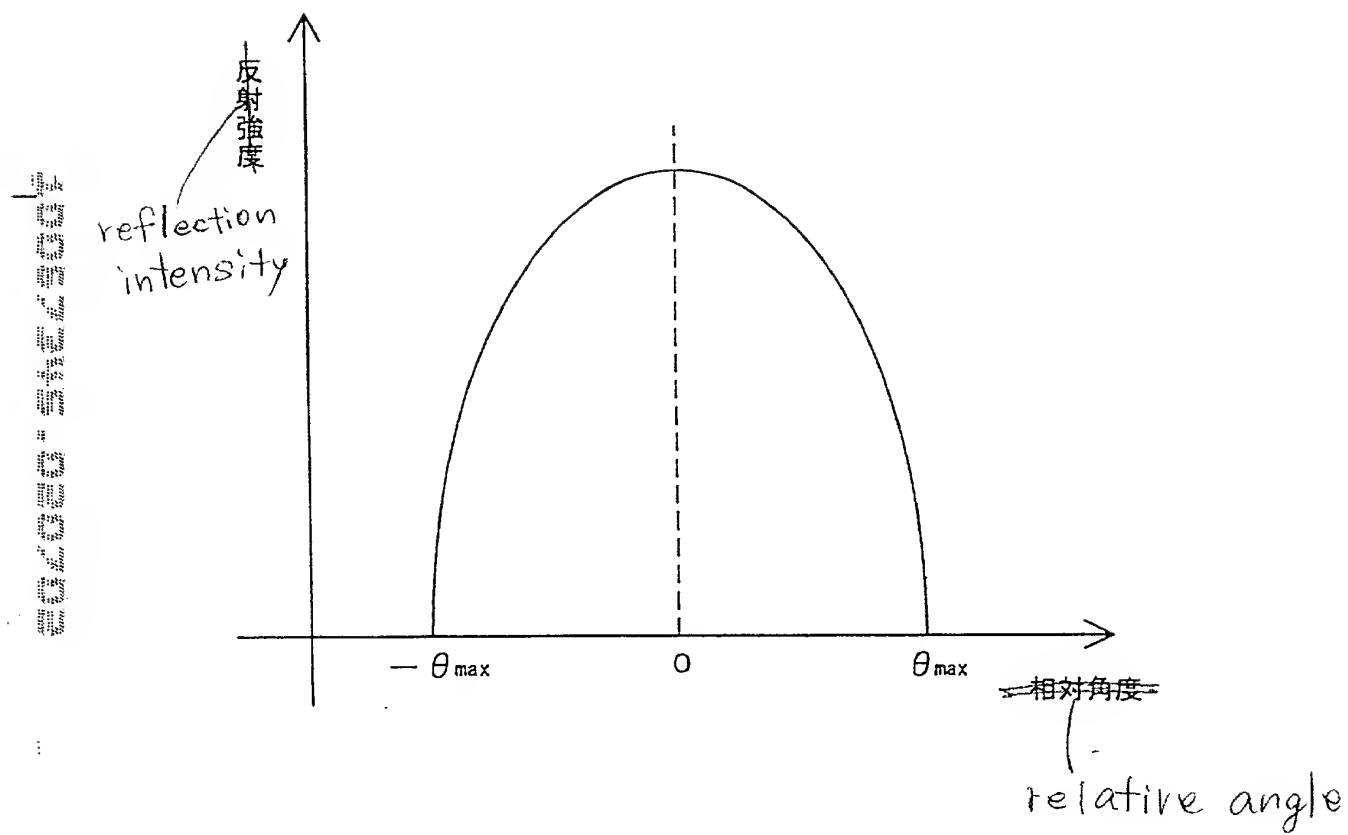


Fig. 20 A

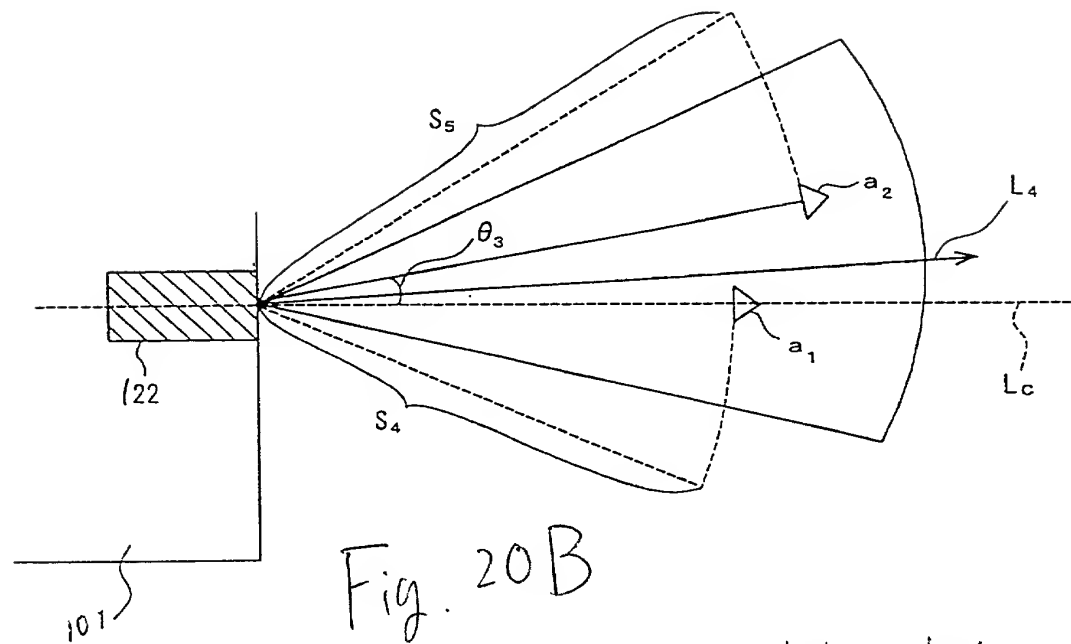


Fig. 20 B

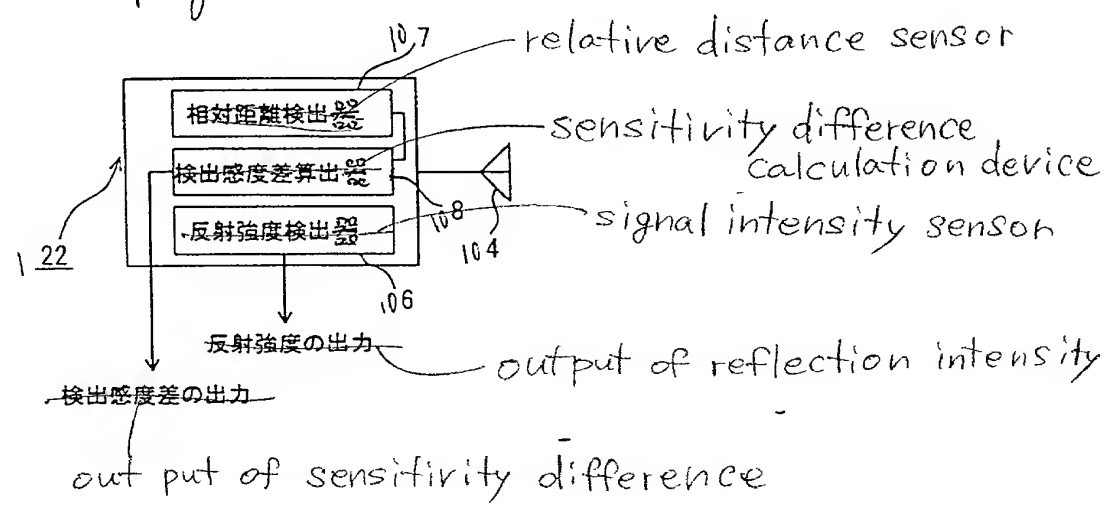


Fig. 21

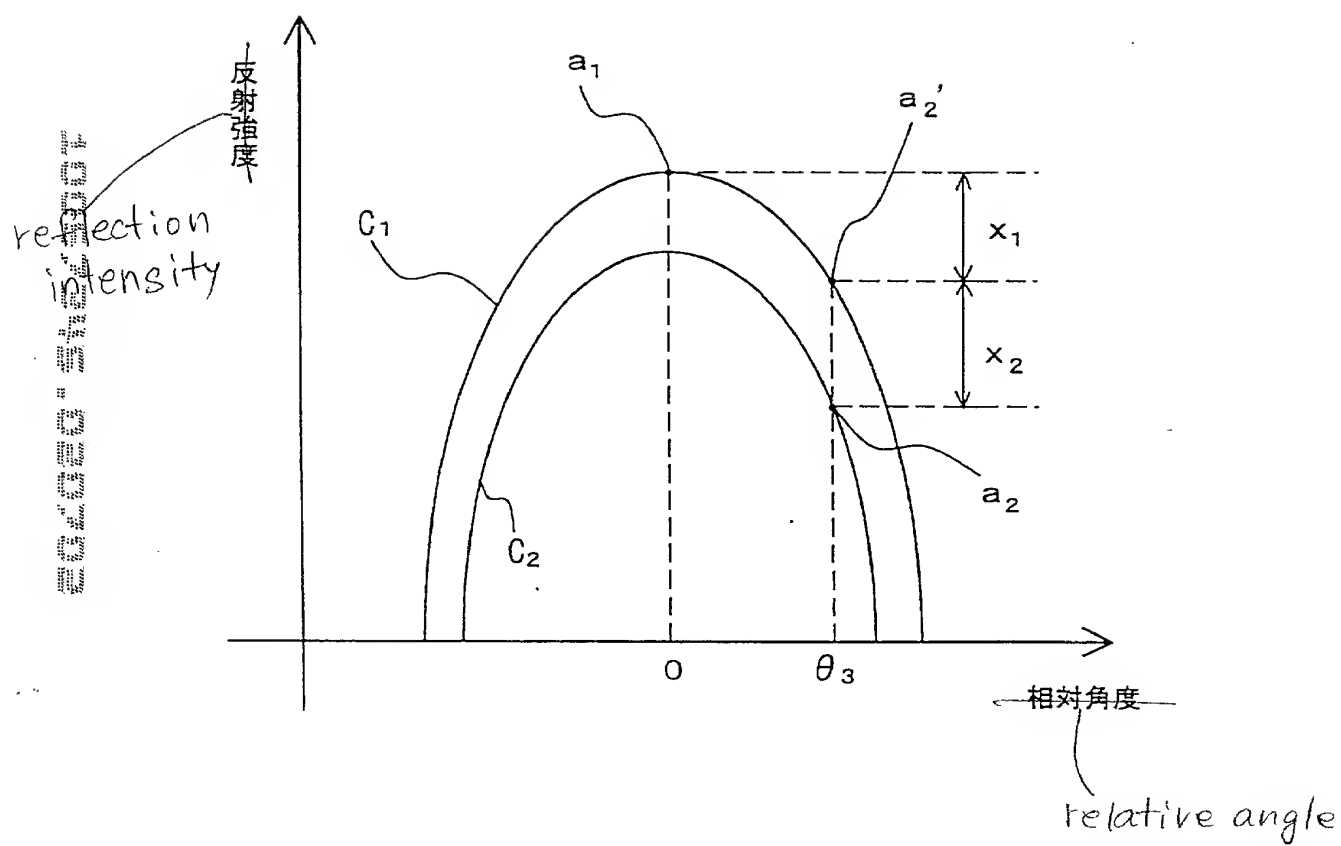


Fig. 22A

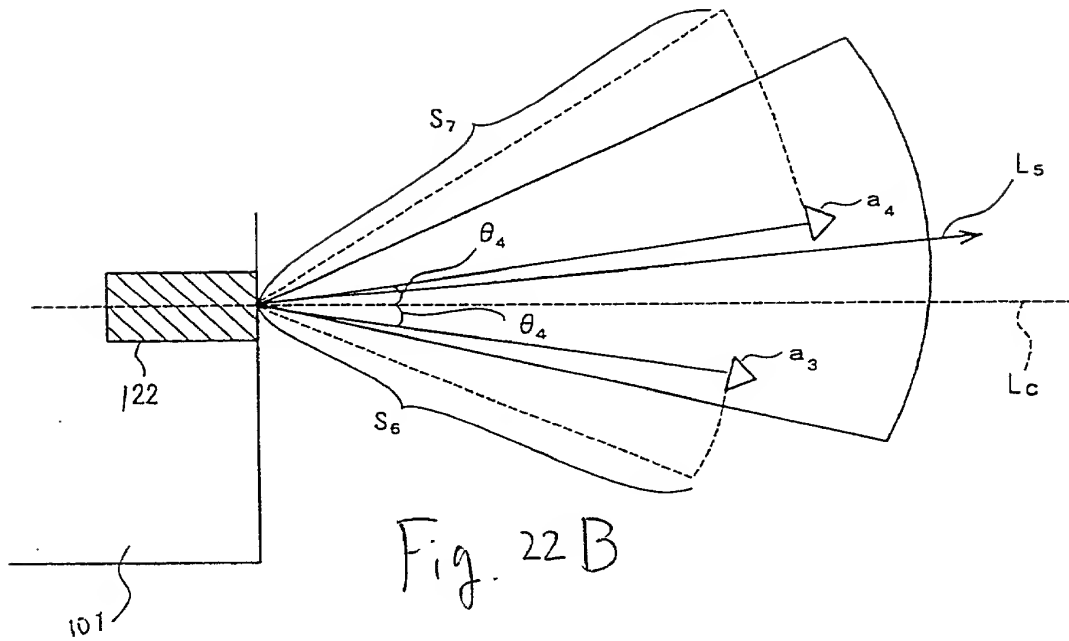


Fig. 22B

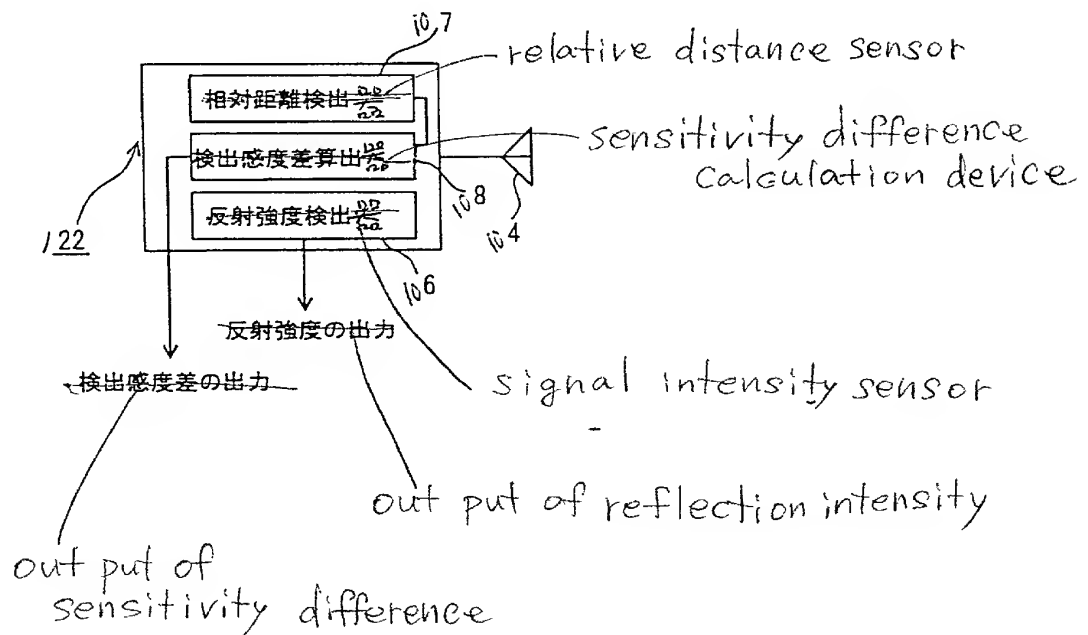


Fig. 23

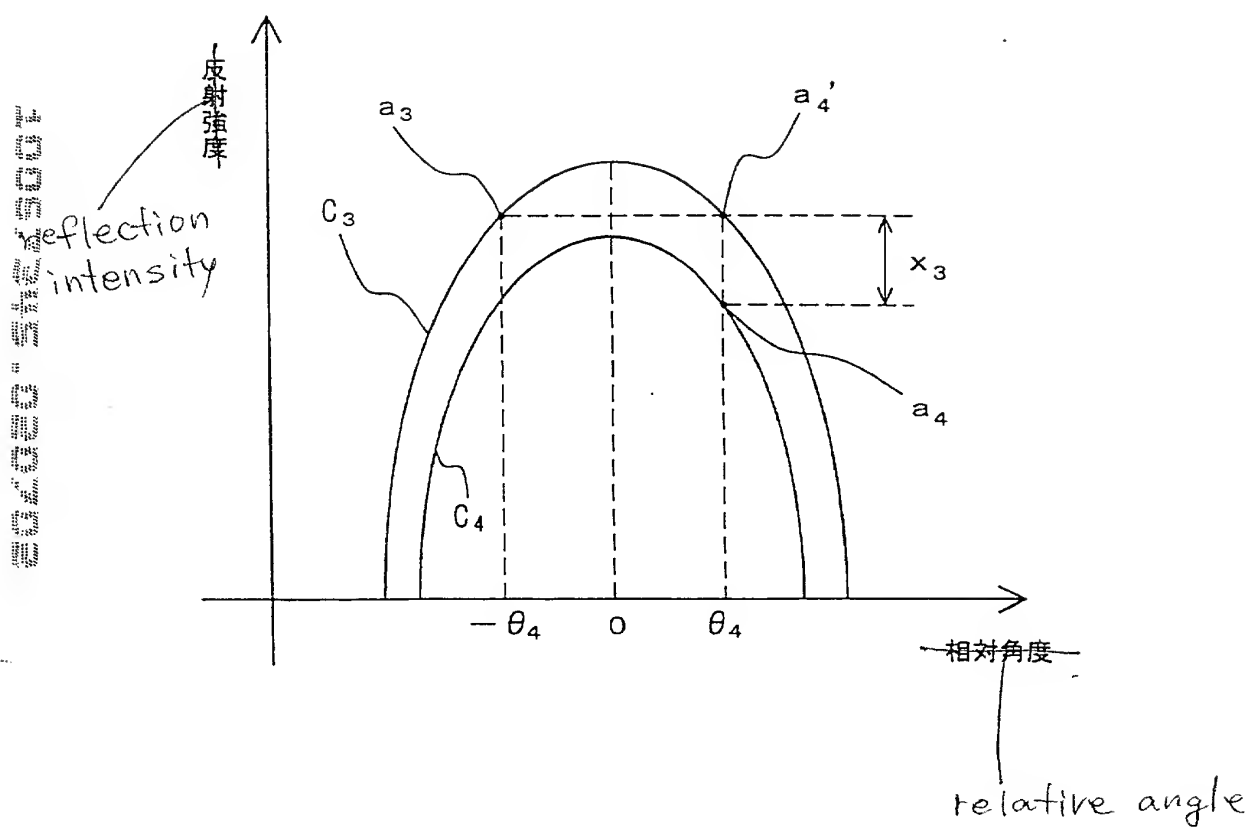


Fig. 24C Fig. 24D

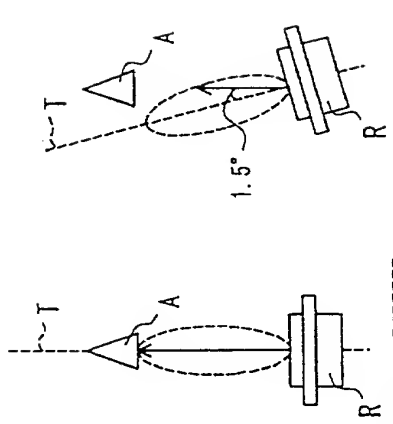


Fig. 24B

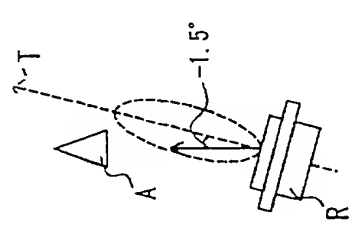


Fig. 24A

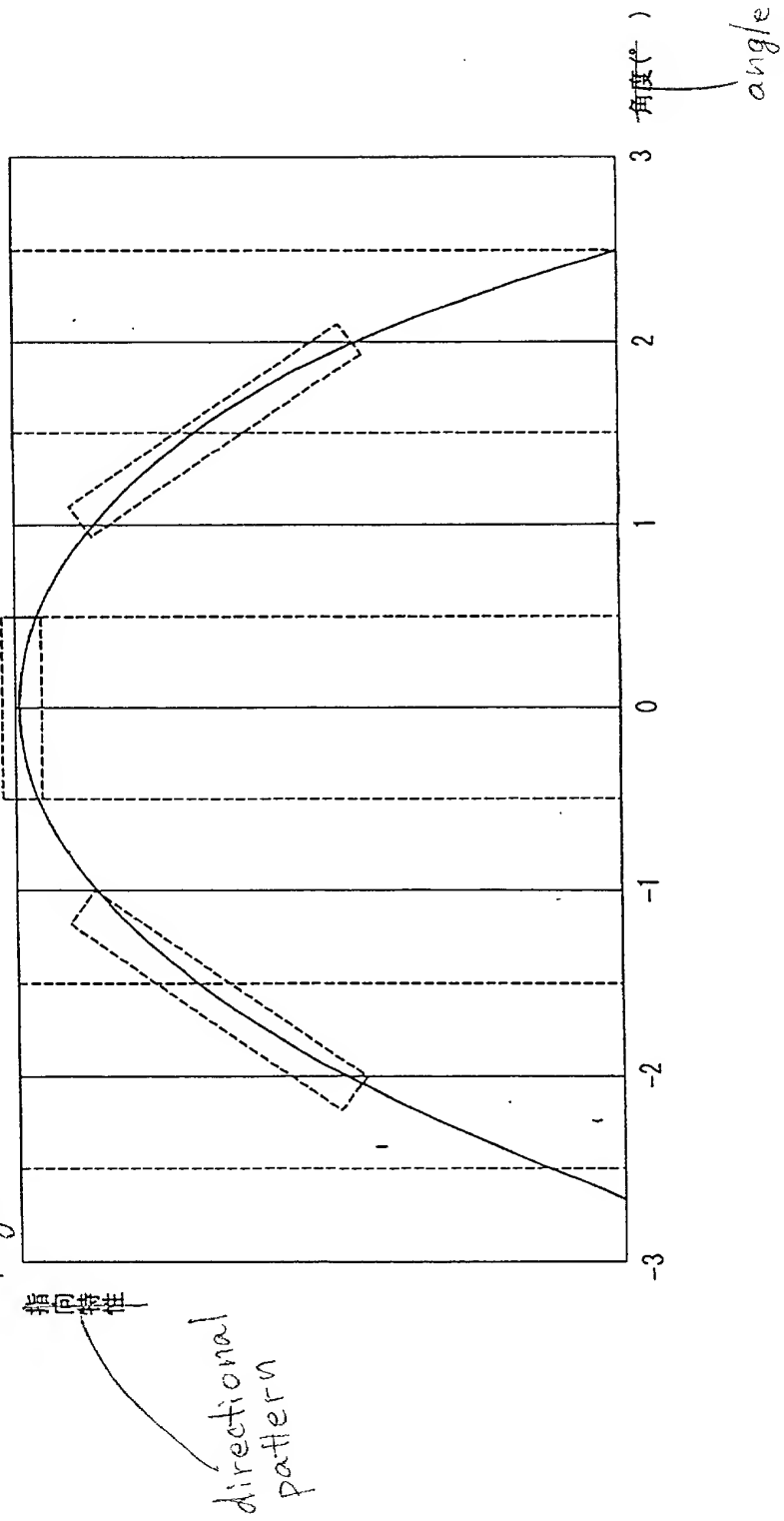




Fig. 25A

receiving level

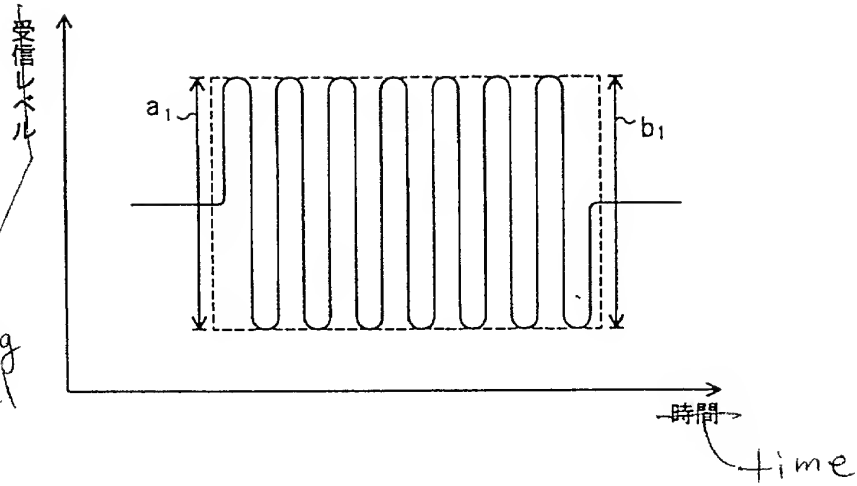


Fig. 25B

receiving level

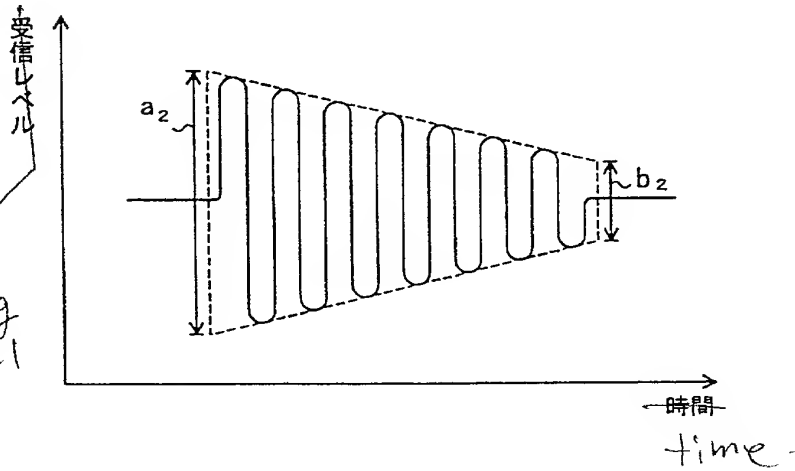


Fig. 25C

receiving level

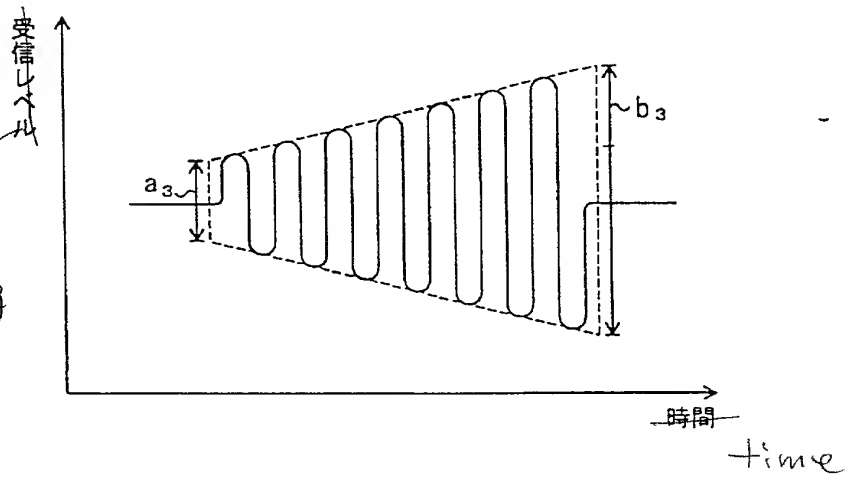


Fig. 26

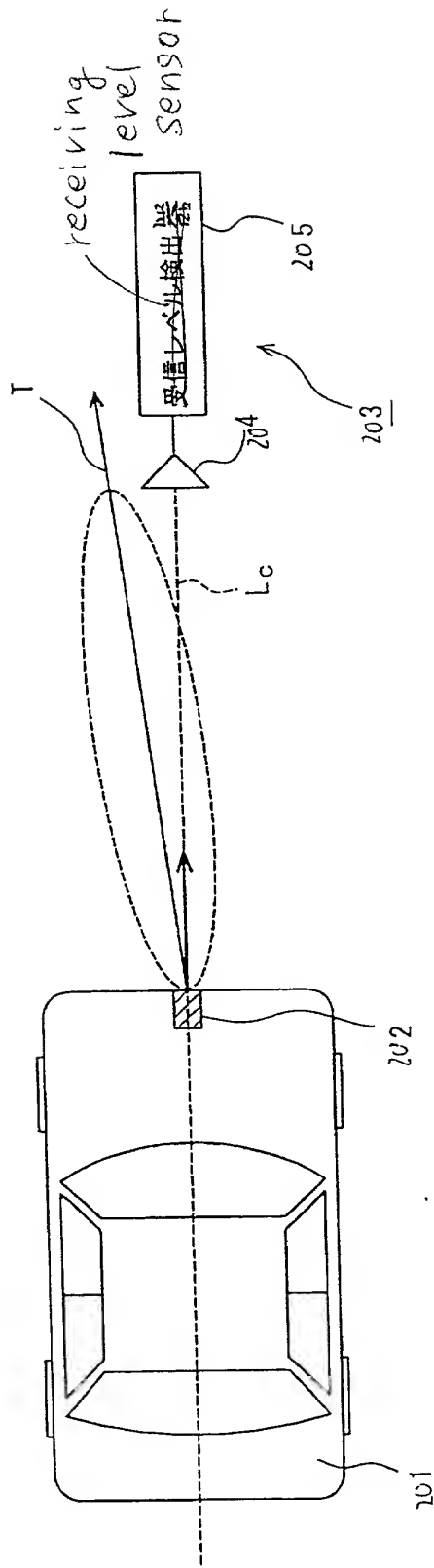


Fig. 27

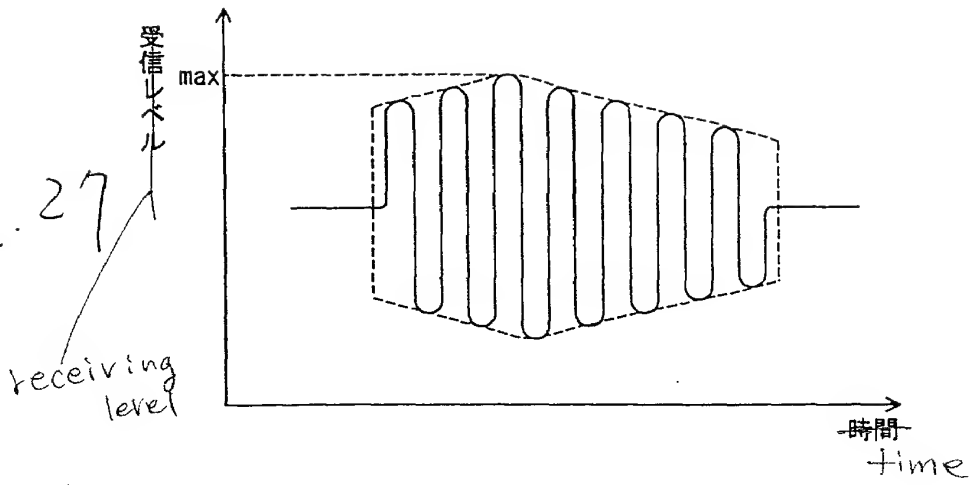


Fig. 28

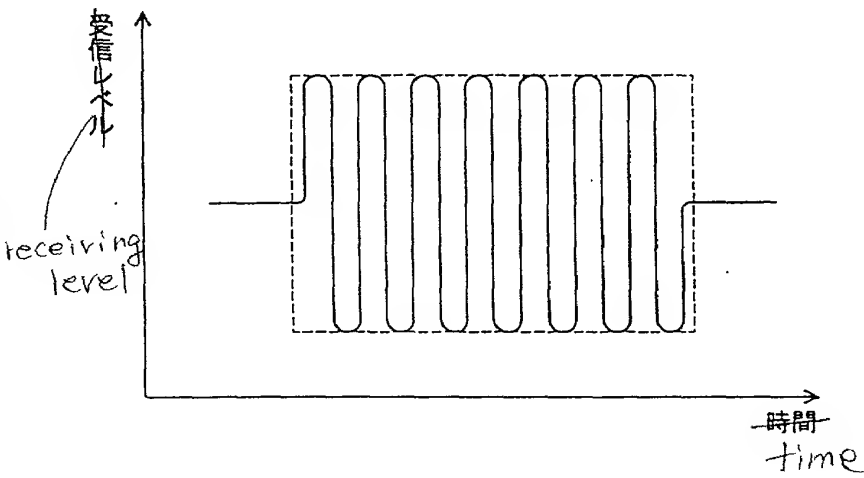


Fig. 29

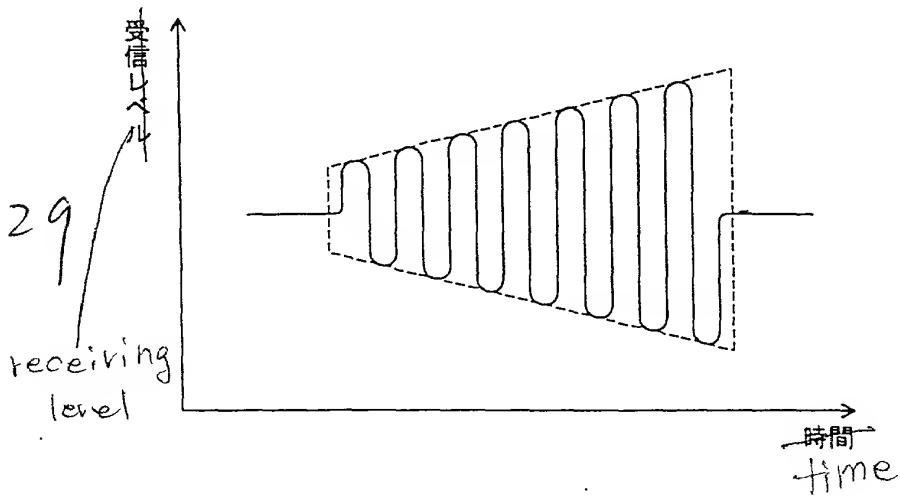
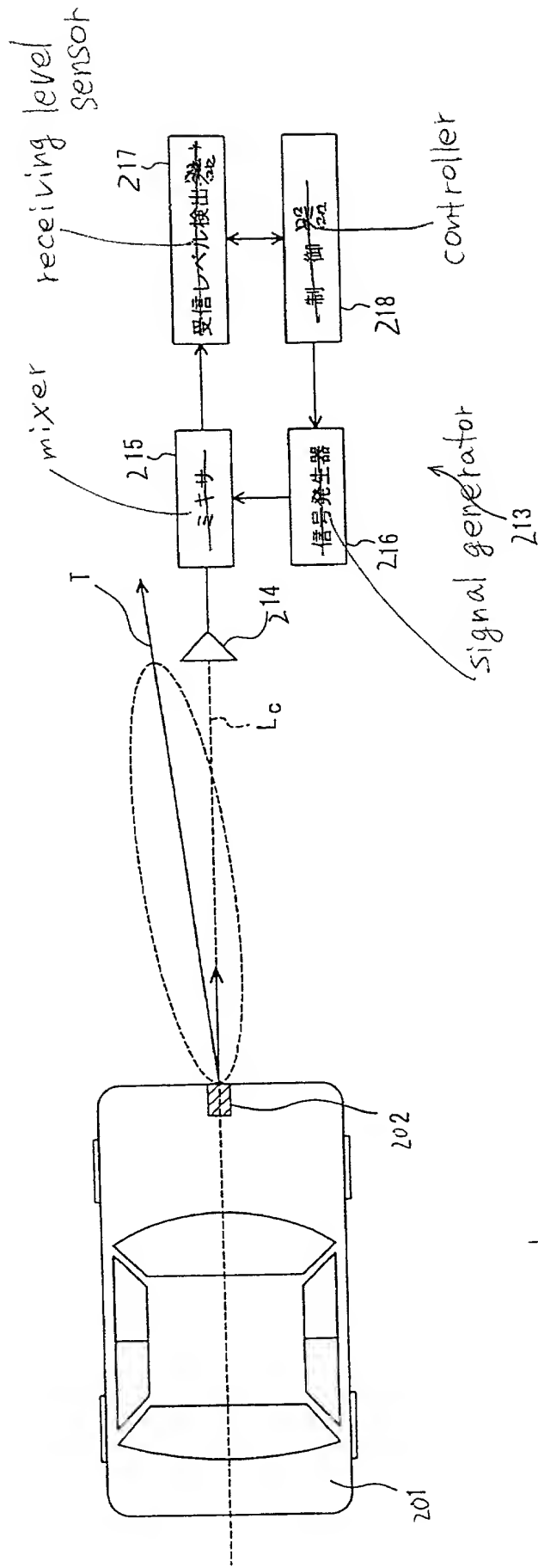


Fig. 30



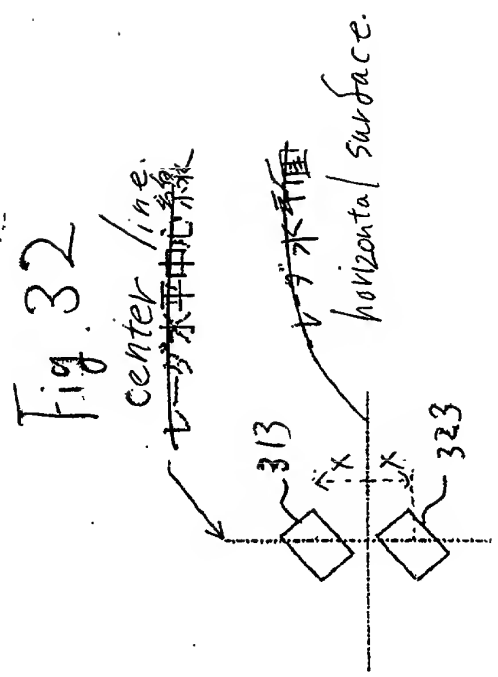
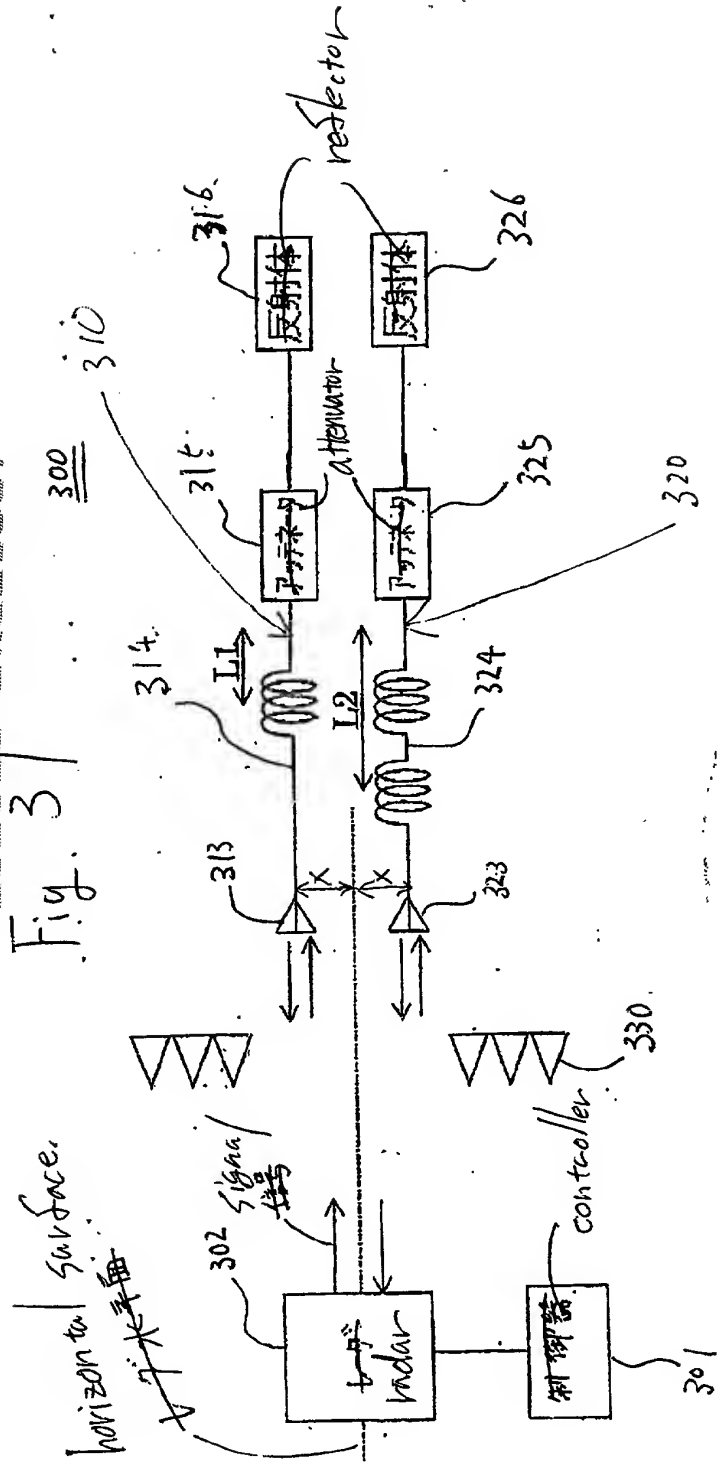


Fig. 33

